## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application using (Original) (Currently Amended) (New) (Canceled) (Previously Presented) nomenclature, as recited in the below listing of claims.

1. (Previously Presented) A hinge for positioning a left panel and a right panel, the hinge comprising,

an inflatable bladder for encapsulating an inflation material, a top film extending between the left and right panels, and a bottom film extending between the left and right panels, the top film and bottom film are circumferentially disposed about the bladder, the top film having a top circumferential length, the bottom film having a bottom circumferential length, the top and bottom circumferential lengths for angularly positioning the left and right panels as the inflatable bladder is inflated.

2. (Original) The hinge of claim 1 further comprising,

a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel.

3. (Original) The hinge of claim 1 wherein,

the inflation material is a sublimation powder disposed in the bladder for inflating the bladder.

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4. (Currently Amended) The hinge of claim 1 further comprising,
uncured resin disposed between the top and bottom films, the
uncured resin being cured by exposure to UV light, the uncured
resin being a curable resin being cured after deployment of the
hinge, and

a reflective coating disposed on the bladder for reflective UV light into the uncured resin for curing the uncured resin to rigidize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels,

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- 5. (Original) The hinge of claim 1 further comprising,
- a left frame for securing the left panel to the top film and to
  the bottom film and to the bladder, and
  - a right frame for securing the right panel to the top film and to the bottom film and to the bladder.

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- 18 | 6. (Original) The hinge of claim 1 further comprising,
- a left frame for supporting the left panel to the top film and to the bottom film and to the bladder,
  - a left adhesive layer for securing the left frame to the left panel and to the top film and to the bottom film and to the bladder,
- a right frame for supporting the right panel to the top film and to the bladder, and
  - a right adhesive layer for securing the right frame to the right panel and to the top film and to the bottom film and to the bladder.

a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel,

a plurality of ground pads disposed on the top and bottom films,

a plurality of extensions comprising conductive traces extending from the flex circuit to the plurality of ground pads, respectively, for distributively grounding the hinge.

a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel,

a plurality of ground pads disposed on the top and bottom films and disposed on and under the left and right panels, and

a plurality of extensions comprising conductive traces extending from the flex circuit to the plurality of ground pads, respectively, for grounding the hinge.

9. (Currently Amended) The hinge of claim 1 further comprising,

a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel, the left panel being a solar cell panel comprising a silver contact and a thin film solar cell, the flex circuit comprising a conductor trace connected to the silver contact for routing power from the left panel and around the bladder.

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10. (Currently Amended) The hinge of claim 1 wherein the sun ejects electrons producing <u>a</u> static electrical charge and the sun emits UV light exposing the hinge to UV light and <u>a</u> static electrical charge, the hinge further comprising,

uncured resin disposed between the top and bottom films, the uncured resin being cured by exposure the to the UV light, the uncured resin being a curable resin being cured after deployment of the hinge, and

a coating disposed over the top and bottom films for passing UV light and for conducting <u>a</u> static electrical charge, the coating serving to discharge <u>a</u> static electrical charge accumulating on the coating, the UV light curing the uncured resin to rigidize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels.

11. (Currently Amended) The hinge of claim 1 wherein, the sun ejects electrons producing a static electrical charge and the sun emits UV light exposing the hinge to UV light and a static electrical charge and, the hinge further comprising,

uncured resin disposed between the top and bottom films, the uncured resin being cured by exposure to the UV light, the uncured resin being a curable resin being cured after deployment of the hinge, and

a transparent coating disposed over the hinge for passing UV light and for conducting a static electrical charge, the coating comprising indium tin oxide and magnesium fluoride, the transparent coating serving to discharge a static electrical charge accumulating on the transparent coating, the UV light curing the uncured resin to rigidize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels.

12. (Previously Presented) The hinge of claim 1 wherein the left panel is a solar cell panel for providing power, the hinge further comprising,

a flex circuit extending from the left panel and around the bladder and comprising a trace conductor for electrically routing power from the left panel having an electrical contact and around the bladder, and

a wrap around contact for electrically connecting the electrical contact and the trace conductor.

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13. (Currently Amended) A hinge for positioning a left panel and a right panel, wherein the sun ejects an electrical charge producing a static electrical charge and the sun emits UV light exposing the hinge to UV light and a static electrical charge, the hinge comprising,

uncured resin,

a top film for encapsulating the uncured resin, the uncured resin being cured by exposure to UV light, the top film having a top circumferential length for defining a position between the left and right panels, the uncured resin being a curable resin being cured after deployment of the hinge, and

a coating disposed over the top film for passing the UV light for curing the uncured resin and for static discharge protection of the top film, the coating serving to discharge a static electrical charge accumulating on the coating, the UV light curing the uncured resin to rigidize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels.

14. (Currently Amended) The hinge of claim 13, the hinge further comprising,

a bladder filled with a sublimation powdered for expanding the bladder, and

a bottom film, the top film and bottom films are circumferentially disposed about the bladder, the bottom film having a bottom circumferential length, the top and bottom circumferential length defining the position between the left and right panels when the bladder has expanded.

15. (Original) The hinge of claim 13, wherein, the coating comprises indium tin oxide and magnesium fluoride. 16. (Currently Amended) A hinge for positioning a left panel and a right panel, where the sun emits UV light exposing the hinge to UV light, the hinge comprising, uncured resin, the uncured resin being a curable resin being cured after deployment of the hinge, and a top film coupled to the left and right panels and for encapsulating the uncured resin, the uncured resin being cured by exposure to the UV light, the top film having a top circumferential length for defining an angular position between the left and right panels, the UV light curing the uncured resin to rigidize the hinge to secure in position the top film for permanently securing in position the left and right panels. 

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